

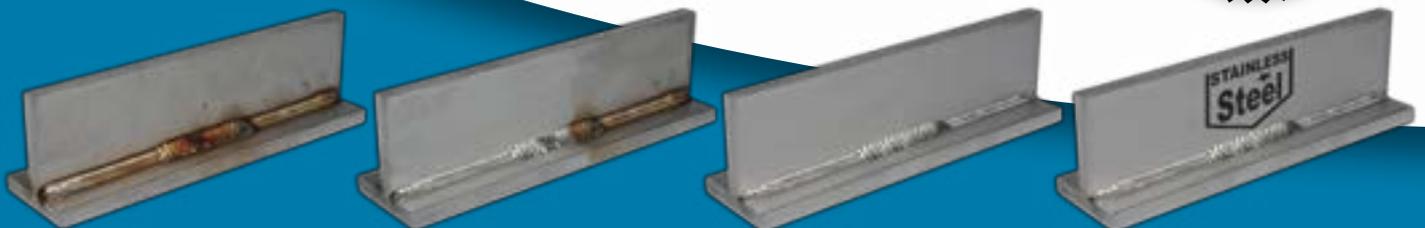
# TIG-MAX®

XT 4000 | XT 6000 | XT 7000 | XT 9000

The next  
generation  
in weld  
cleaning



Easy,  
quick,  
clean!



Made in  
Germany

## GENERAL

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HSF Industrietechnik GmbH was founded in 2006, converted into a partnership in 2010 and since 2014 has been a limited liability company with Uwe and Peter Pfeiffer as managing directors.

We are specialized in the supply of equipment and consumables for the pre-treatment, refining and cleaning of stainless steel metal surfaces and in various market sectors throughout Europe. As a family business with many years of tradition and experience, we have earned a significant reputation for efficiency, integrity and reliability. We offer our customers : an innovative attitude, first-class service, expert advice and high-quality products at attractive prices.



Our dedicated and qualified team serves our customers in line with our high service standards. Our large stockholding of equipment and consumables enables us to provide fast delivery and keep our customers' stocks at a low level. Well-structured workflows ensure compliance with our delivery commitments.

Our sales representatives and dedicated account managers discuss with customers all aspects of the desired collaboration and offer on-demand and tailored solutions. We advise our customers on our systems, machines and materials for every possible application.

The introduction of a quality management system according to DIN EN ISO 9001: 2015 is an essential prerequisite for the company for the continuous improvement and further development of the company's quality goals and thus for achieving a high level of customer satisfaction for the benefit of the company and its employees.

**HSF INDUSTRIE**  
TECHNIK GmbH

YOUR PARTNER FOR INDUSTRY

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## Why clean welds? The cleaning of stainless steel welds is required for aesthetic as well as technical reasons. The aesthetic aspect is self-evident, so let's take a closer look at the technical aspect.

### 1. What happens when welding stainless steel

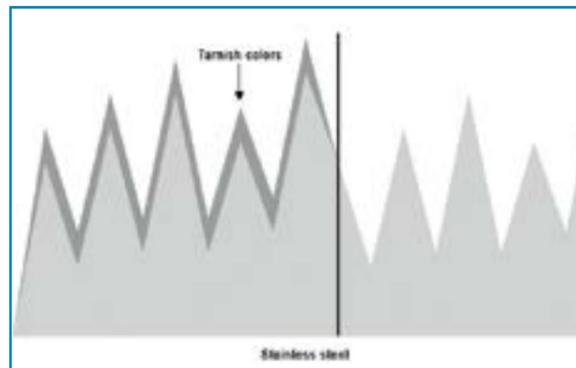
Due to the high heat generated when welding stainless steel, the chrome is broken around the weld and an iron-rich zone remains. The high iron concentration at the surface and the high temperatures during welding oxidize the iron immediately. This leads to the characteristic blue tone and a brown discoloration around the weld. The discolored area is susceptible to corrosion because the low chromium concentration can not protect the metal. The **TIG-MAX®** quickly removes the discolored oxides, passivating the underlying surface without altering the appearance or texture of the metal. The reason why the **TIG-MAX®** succeeds so quickly and reliably is explained below.

### 2. Why the TIG-MAX®?

The **TIG-MAX®** works with a brush through which electrical current is passed. With the brush, a cleaning liquid is absorbed and applied to the areas to be cleaned. The liquid is used to remove the iron oxide stains formed during welding. The brush converts the electrical current into high temperatures, especially at the bristle ends. The liquid, which is relatively harmless at room temperature, is heated by the brush to temperatures at which it becomes much more reactive, resulting in an accelerated chemical action on the stainless steel surface. Unlike pickling paste, the active ingredients of the cleaning fluid are not inherently harmful to health. When used correctly, the fluids are non-toxic to the environment.

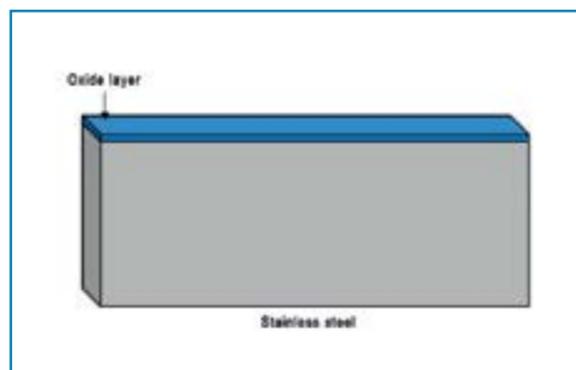
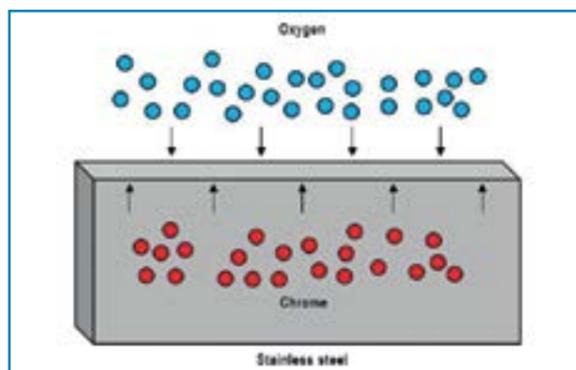
### 3. Chemical effect No. 1: Cleaning

The blue and brown spots that result from welding are iron and ferrous oxides. The iron oxide layers are relatively weak and the working temperature of the **TIG-MAX®** can break up the iron oxides quickly. The released iron ions are kept in the solution and separated (i.e. put into a state where they can no longer form oxides). When the **TIG-MAX®** settles and wipes off the liquid, it leaves a stainless steel surface that is free of iron ions and iron oxides.



### 4. Chemical effect No. 2: Passivation

Iron oxides can only badly protect the metal surface from contamination. For this reason, discolored areas begin to rust soon after welding, even when they have been cleaned. To stop this corrosion, the metal surface must be "passivated". When the **TIG-MAX®** removes the iron oxide layer, the underlying metal, which is rich in chromium, is exposed. The high temperature of the **TIG-MAX®** allows the chromium to be rapidly oxidized, so that instead of the iron oxide layer, a chromium oxide layer is now formed. This process, forming a chromium oxide layer, is also called "passivation".



Chromium oxide can protect the underlying metal very well from impurities and effectively prevent corrosion and rust. Since the chromium oxide layer is invisible, the surface texture and appearance of the metal remains unchanged.

### 5. What speaks against other procedures?

Traditionally, stainless steel is cleaned with **pickling paste** or **mechanical abrasion**. Both methods for cleaning stainless steel are subject to problems. Pickling paste contains two **very strong acids**, which decompose the surface of the stainless steel. This process is also called "**etching**".

#### Pickling paste

The surface of the stainless steel becomes damaged. Although pickling paste can remove the iron oxide discoloration, it leaves the metal surface **without a protective oxide layer**. This can cause **contamination, corrosion** and **rust**. Therefore, a separate passivation step is necessary. In addition, pickling paste is **extremely harmful to health** and **dangerous** to the environment due to the acids contained in it.



#### Mechanical abrasion

Is understood to mean the removal of the metal surface by grinding or other methods, such as sandblasting. Although the iron oxide layers are removed, but also the **metal surface is changed or damaged**. Also this process **does not passivate the metal**.

Further treatment steps are therefore necessary to protect the stainless steel surface. In abrasives and wire brushes can also **hide impurities** that further increase the damage.



#### Conventional electrolytic devices

These devices pursue a basically good approach and are widely used. However, due to the relatively low temperature during cleaning, **the passive layer is not restored**.

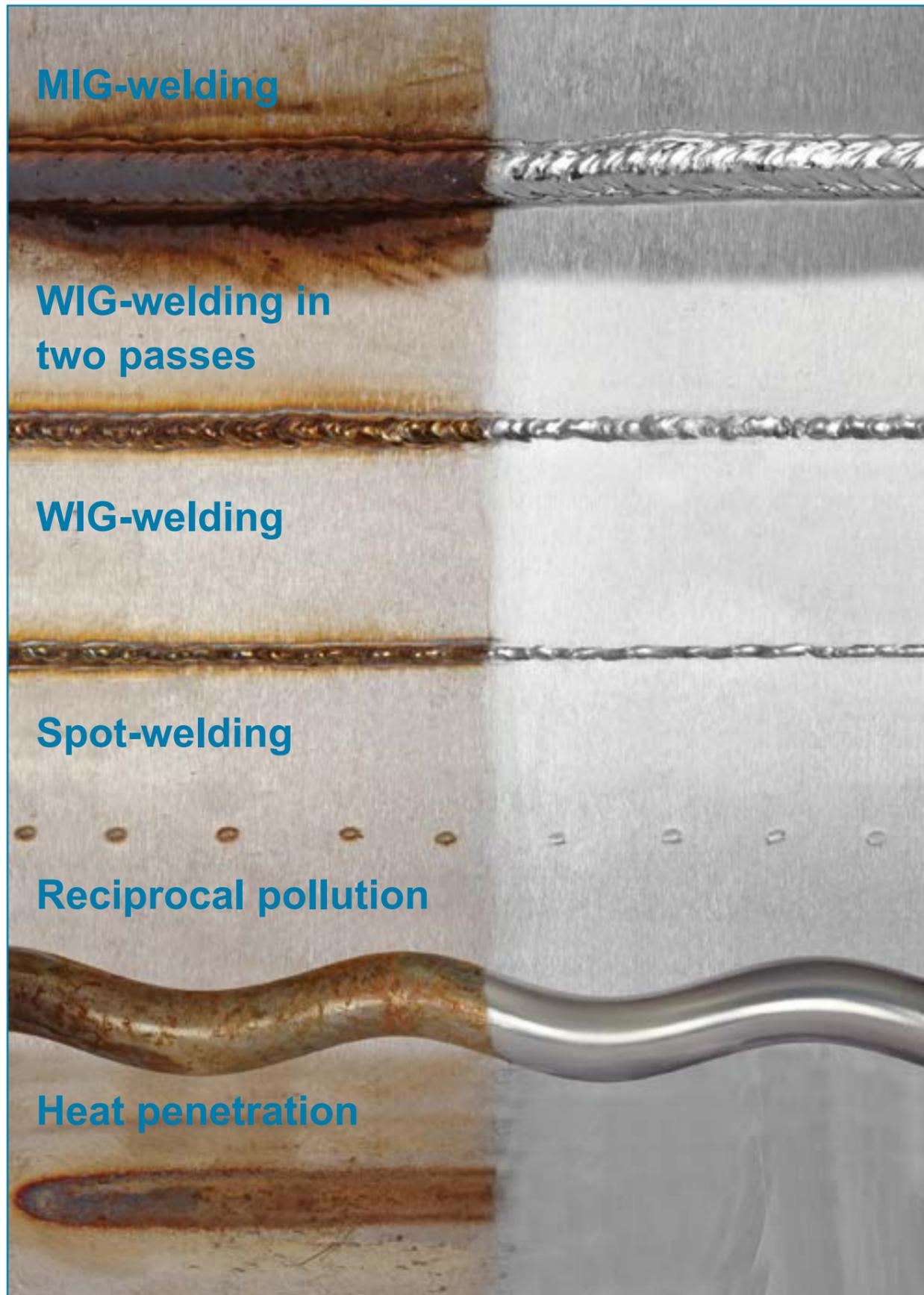
The main problem with such devices is that the pads or felt covers **wear out very quickly** and the electrode comes into contact with the workpiece. This causes **black discoloration**, which are very difficult to remove.



### 6. Conclusion

The **TIG-MAX®** is a **safe and effective** device for cleaning the surfaces of stainless steel, especially after welding. It **quickly and easily** removes the blue and brown iron oxide stains without altering the surface finish of the metal. In addition, the **TIG-MAX® passivates** the metal in the same operation, so that the complete, **desired result can be achieved even faster**. The fluids used by the **TIG-MAX®** become reactive only at high temperatures. Under normal conditions, therefore, they are relatively **harmless** to the user and the environment.

## THE TIG-MAX<sup>®</sup> EFFECT!



## THE TIG-MAX<sup>®</sup> ADVANTAGES!

**BLITZ • SCHNELL • SAUBER!**



**EASY • QUICK • CLEAN!**

**PROFESSIONELLE SCHWEISSNAHTREINIGUNG**

**REINIGT**  
*cleans*

**POLIERT**  
*polishes*

**PASSIVIERT**  
*passivates*

**MARKIERT**  
*marking*

**STUFENLOSE  
EINSTELLUNG**  
*variable power  
adjustment*

**NSF -  
ZULASSUNG**  
*NSF -  
certified*

**LANGLEBIGE  
PINSEL**  
*longlife brush*

**AUTOMATISCHE  
KÜHLUNG**  
*automatic cooling*

**GERINGES  
GEWICHT**  
*lightweight*

**PROFESSIONAL WELD CLEANING**

## TIG-MAX® XT 4000



SKU: 2014140

Output: 1440 W  
Dimensions: 350 x 133 x 213  
(LxWxH in mm)  
Protection class: IP23  
Weight: 7,0 Kg

24  
hours  
continuous  
use!



### TIG-MAX® XT 4000 Weld Cleaner – Complete set

#### Included in the set:

- |   |                                     |
|---|-------------------------------------|
| 1 TIG-MAX® XT 4000 electrolytic pickling device         | 1 HSF spray bottle 0,5l             |
| 1 TIG-MAX® XT cable with handle, blue, 3m               | 1 HSF safety goggles                |
| 1 TIG-MAX® XT earth cable, black, 3m, incl. earth clamp | 1 HSF respirator                    |
| 2 TIG-MAX® XT 4000 cleaning brushes                     | 1 HSF gloves                        |
| 1 TIG-MAX® XT 4000 sliding shroud                       | 2 microfiber cloths Superclean      |
| 1 TIG-MAX® TC-225 electrolyte, 1 liter                  | 1 HSF wire brush small              |
| 1 TIG-MAX® TC-510 neutralizer, 1 liter                  | 1 user manual and quick start guide |
| 1 TIG-MAX® TC-275 electrolyte, 250ml                    | optional:                           |
| 1 HSF liquid container                                  | 1 TIG-MAX® XT transport box         |

## TIG-MAX® XT 6000



SKU: 2014145V2

Output: 2880 W  
Dimensions: 350 x 133 x 213  
(LxWxH in mm)  
Protection class: IP23  
Weight: 7,5 Kg

24  
hours  
continuous  
use!



### TIG-MAX® XT 6000 Weld Cleaner – Complete set

#### Included in the set:

- |   |                                     |
|---|-------------------------------------|
| 1 TIG-MAX® XT 6000 electrolytic pickling device         | 1 HSF pressure pump sprayer 1,2l    |
| 1 TIG-MAX® XT cable with handle, blue, 3m               | 1 HSF safety goggles                |
| 1 TIG-MAX® XT earth cable, black, 3m, incl. earth clamp | 1 HSF respirator                    |
| 3 TIG-MAX® XT 6000 cleaning brushes                     | 1 HSF gloves                        |
| 1 TIG-MAX® XT 6000 sliding shroud                       | 2 microfiber cloths Superclean      |
| 1 TIG-MAX® TC-275 electrolyte, 1 liter                  | 1 HSF wire brush small              |
| 1 TIG-MAX® TC-510 neutralizer, 1 liter                  | 1 TIG-MAX® XT transport box         |
| 1 HSF liquid container                                  | 1 user manual and quick start guide |

## TIG-MAX® XT 7000



**24  
hours  
continuous  
use!**

SKU: 2014147

Output: **2500 W**  
Dimensions: **380 x 170 x 315**  
(LxWxH in mm)  
Protection class: **IP23**  
Weight: **17,0 Kg**



### TIG-MAX® XT 7000 Weld Cleaner – Complete set

#### Included in the set:

- |   |                                     |
|---|-------------------------------------|
| 1 TIG-MAX® XT 7000 electrolytic pickling device         | 1 HSF pressure pump sprayer 1,2l    |
| 1 TIG-MAX® XT cable with handle, blue, 3m               | 1 HSF safety goggles                |
| 1 TIG-MAX® XT earth cable, black, 3m, incl. earth clamp | 1 HSF respirator                    |
| 3 TIG-MAX® XT 7000 cleaning brushes                     | 1 HSF gloves                        |
| 1 TIG-MAX® XT 7000 sliding shroud                       | 2 microfiber cloths Superclean      |
| 1 TIG-MAX® TC-275 electrolyte, 1 liter                  | 1 HSF wire brush small              |
| 1 TIG-MAX® TC-510 neutralizer, 1 liter                  | 1 user manual and quick start guide |
| 1 HSF liquid container                                  | optional:                           |
|   | 1 TIG-MAX® XT transport case        |

## TIG-MAX® XT 9000



**24  
hours  
continuous  
use!**

SKU: 2014150

Output: **4000 W**  
Dimensions: **380 x 170 x 315**  
(LxWxH in mm)  
Protection class: **IP23**  
Weight: **17,0 Kg**



### TIG-MAX® XT 9000 Weld Cleaner – Complete set

#### Included in the set:

- |   |                                     |
|---|-------------------------------------|
| 1 TIG-MAX® XT 9000 electrolytic pickling device         | 1 HSF liquid container              |
| 1 TIG-MAX® XT cable with handle, blue, 6m               | 1 HSF pressure pump sprayer 1,2l    |
| 1 TIG-MAX® XT earth cable, black, 6m, incl. earth clamp | 1 HSF safety goggles                |
| 5 TIG-MAX® XT 9000 cleaning brushes                     | 1 HSF respirator                    |
| 1 TIG-MAX® XT 9000 sliding shroud                       | 1 HSF gloves                        |
| 1 TIG-MAX® XT double brush adapter                      | 5 microfiber cloths Superclean      |
| 1 TIG-MAX® XT sliding shroud for double brush           | 1 HSF wire brush small              |
| 1 TIG-MAX® TC-275 electrolyte, 1 liter                  | 1 TIG-MAX® XT transport case        |
| 1 TIG-MAX® TC-510 neutralizer, 1 liter                  | 1 user manual and quick start guide |

## TIG-MAX® XT 9000 WITH TROLLEY



**24 hours continuous use!**



SKU: 2014155

Output: **4000 W**  
Dimensions: **380 x 170 x 315**  
(LxWxH in mm)  
Protection class: **IP23**  
Weight: **17,0 Kg**

### TIG-MAX® XT 9000 Weld Cleaner – Complete set with trolley

#### Included in the set:

- |   |                                     |
|---|-------------------------------------|
| 1 TIG-MAX® XT 9000 electrolytic pickling device             | 1 HSF liquid container              |
| 1 TIG-MAX® XT shape grip cable, blue, 6m                    | 1 HSF pressure pump sprayer 1,2l    |
| 1 TIG-MAX® XT ground cable, black, 6m, incl. Earth terminal | 1 HSF safety glasses                |
| 5 TIG-MAX® XT 9000 cleaning brushes                         | 1 HSF respirator                    |
| 1 TIG-MAX® XT 9000 sliding insulation sleeve                | 1 HSF gloves                        |
| 1 TIG-MAX® XT double brush adapter                          | 5 microfiber cloths Superclean      |
| 1 TIG-MAX® XT double brush insulation sleeve                | 1 HSF wire brush small              |
| 1 TIG-MAX® TC-275 electrolyte, 1 liter                      | 1 TIG-MAX® XT trolley               |
| 1 TIG-MAX® TC-510 neutralizer, 1 liter                      | 1 user manual and quick start guide |

## TIG-MAX® XT STAINLESS STEEL SURFACE CLEANER

**Cleaning!**  
**Derusting!**  
**Passivating!**

suitable for:

facades  
surfaces  
container  
tanks and much more

available in:  
**13cm**  
or  
**33cm**  
width



#### Included in the set:

- 1 Bucket incl. Plastic hook
- 5 Cleaning pads
- Surface cleaner incl. 7 m cable
- telescopic pole 0,6-1,2 m

SKU: 2014350

## TIG-MAX® PROFESSIONAL CLEANING TABLE

**Robust construction, with functional equipment. Totally made of stainless steel!**

The table has 2 holders for the pressure pump atomizers and 3 holders for winding the cables. The 4 wheels make it possible to place the table on the move in the workshop.

A drain allows all liquids to be collected in a canister and then simply disposed of. A ground point on the table makes it easy to work because it does not need to be clamped directly to the workpiece.

- dimensions (LxWxH in cm): 128 x 67,5 x 108,5
- working surface (LxWxH in cm): 114 x 66 x 96



SKU: 5200



## TIG-MAX® SPECIAL STEAM CLEANER

We say **STOP** to white patches and white edges!



**State-of-the-art technology with outstanding performance in absolute top quality!**

- 3200 watts boiler heating
- 8 bar working pressure
- 2 liters tank volume
- 171°C (322°F) boiler temperature
- approx. 5 minutes heating up time
- Weight 8,8 Kg
- Housing completely made of stainless steel
- Dimensions (LxWxH in mm): 322 x 365 x 330
- incl. accessories

SKU: 2014900

## FLUIDS

### TB-01 weld pre-cleaner

Specially formulated washing solution for the thorough removal of residues on the stainless steel surface before welding. Prevents burning in of impurities on the surface.

SKU 1 liter: 4300

SKU 5 liter: 4301



### TB-21 electrolyte



SKU 1 liter: 4302

SKU 5 liter: 4304



### TB-25 electrolyte



SKU 1 liter: 4305

SKU 5 liter: 4306



### TB-30 ND electrolyte



SKU 1 liter: 4308

SKU 5 liter: 4307

ECO FRIENDLY



### TB-31 ND electrolyte



SKU 1 liter: 4309

SKU 5 liter: 4310

ECO FRIENDLY



## FLUIDS

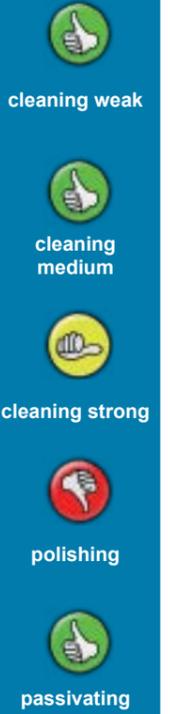
### TC-225 electrolyte

Compared to the TC-275, the TC-225 is about half as strong, making it particularly suitable for TIG welds.

TC-225 contains no acids, such as nitric acid or sulfuric acid, this ensures safe working

SKU 1 liter: 4319

SKU 5 liter: 4318



### TC-275 electrolyte

It's a powerful electrolyte for cleaning more heavily oxidized welds. Due to the special composition, this is the fastest working electrolyte for weld seam processing and is also suitable for severe discoloration. It is also particularly suitable for electrolytic polishing.

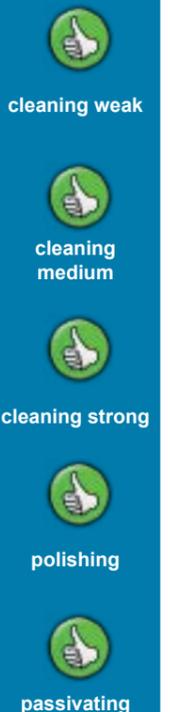
It contains no acids, such as nitric acid or sulfuric acid, this ensuring safe working.

### 3 in 1

**Highest** cleaning performance  
**Highest** polishing performance  
**Highest** passivating performance

SKU 1 liter: 4321

SKU 5 liter: 4320



## FLUIDS

### TB-40 neutralizer

To wash off the electrolyte TB-21 and TB-25.

SKU 1 liter: 4311

SKU 5 liter: 4312



### TB-41 neutralizer

To wash off the electrolyte TB-30ND and TB-31ND.

SKU 1 liter: 4313

SKU 5 liter: 4314



### TC-510 neutralizer

To wash off the electrolyte TC-225 and TC-275.



SKU 1 liter: 4323

SKU 5 liter: 4322

### TB-50 finishing and whitening fluid

A special liquid for removing crystallized phosphorus deposits on stainless steel surfaces. In addition, the TB-50 achieves amazing results in final cleaning and gloss enhancement. It removes fingerprints, is dust-repellent and also avoids re-contamination.

SKU 1 liter: 4315

SKU 5 liter: 4316



## MARKING ACCESSORIES

It's easy to mark or seal stainless steel surfaces, no matter if your logo is a serial number or lettering!

### TIG-MAX<sup>®</sup> XT marking kit



Included in the kit:

- 1 TIG-MAX<sup>®</sup> XT set case, small
- 1 TIG-MAX<sup>®</sup> XT TM 90 marking electrolyte, 1 liter
- 1 TIG-MAX<sup>®</sup> XT marking adapter
- 1 TIG-MAX<sup>®</sup> XT marking electrode
- 1 HSF marking felt tape, 1m
- 10 HSF O-rings
- 1 individual marking template, approx. 80x55mm
- 1 masking tape, 25mm wide
- 1 scissors
- 1 open-end wrench, 13mm

SKU for Tig-Max XT: 20144212

SKU for Tig Brush: 4200

### TIG-MAX<sup>®</sup> XT marking set



Included in the set:

- 1 TIG-MAX<sup>®</sup> XT TM 90 labeling electrolyte, 0,5 liter
- 1 TIG-MAX<sup>®</sup> XT marking adapter
- 1 TIG-MAX<sup>®</sup> XT marking electrode
- 1 HSF marking felt tape, 0,5m
- 5 HSF O-rings

SKU for Tig-Max XT: 20144211

SKU for Tig Brush: 4201

### INDIVIDUAL marking stencil



With a marking stencil individual writings or images, such. Mark, sign or engrave logos on stainless steel surfaces. Suitable for up to 500 markings. Ask for your individual Stencil!

The ordering of stencils is as follows:

1. You submit layout and desired size by e-mail to [info@hsf-group.de](mailto:info@hsf-group.de) (eg. TIFF, jpg, BMP, PDF, Word etc.)
2. We will send a proof and a quotation
3. You approve the proof
4. We deliver the stencil within 10 working days free of charge

SKU: 4210

## MARKING ACCESSORIES

### TIG-MAX®XT marking adapter

The marking adapter makes it possible to mark, seal or engrave stainless steel.



SKU for Tig-Max XT: 20144251

SKU for Tig Brush: 4205

### TIG-MAX®XT marking electrode

It allows to present logos as well as any other images on stainless steel surfaces with the weld cleaning device.



SKU for Tig-Max XT: 42061

SKU for Tig Brush: 4206

### TIG-MAX®XT TM-90 marking electrolyte

Use it in conjunction with the cleaning device to chemically engrave logos, fonts, etc. on stainless steel surfaces.



SKU 0,5 liter: 42091

SKU 1 liter: 4209

### HSF marking felt tape 1 meter

Use the HSF felt strip to mark or sign. It is tailored individually for the marking electrode.



Dimensions: 60x1000x2mm

SKU: 4207

### HSF O-rings for 30/40mm electrodes

Use this special O-ring to attach the felt to the marking electrode.



SKU: 4208

## MARKING ACCESSORIES

### BROTHER P-TOUCH D600VP

Professional labeling device including color display, Print resolution 180 dpi, Bandwidths 18-24 mm, incl. power cable, USB cable, suitcase, 1x standard band and 1x template tape



SKU: 4202

### BROTHER P-TOUCH D800W

Professional PC labeling device including WLAN and separate LCD keyboard, Print resolution 360 dpi, Bandwidths 18-36 mm, incl. power cable/USB cable



SKU: 42022

### Professional thermal label printer

For high print volumes, Print resolution 300 dpi, Bandwidth 100mm, endless, incl. power and USB cable



SKU: 42021

### BROTHER P-TOUCH stencil tapes

Stencil tapes in 18,24 and 36mm width. Suitable for P-TOUCH D600VP and D800W



SKU 18 mm: 4203

SKU 24 mm: 4204

SKU 36 mm: 42041

### Stencil paper for label printers

Stencil paper, endless tape for Themo stencil printer. Width: 100mm, Length: 3m / 30m



SKU 3 m: 42045

SKU 45 m: 42047

## CABLE

### TIG-MAX®XT cable complete

Blue, cable with handle and sliding shroud

SKU:  
3m: 2014300  
6m: 2014308  
10m: 2014307



### TIG-MAX®XT extension cable

Blue, for handle XT

SKU:  
3m: 2014315  
6m: 2014317  
10m: 2014319



### TIG-MAX®XT earth cable

Black, incl. earth clamp

SKU:  
3m: 2014309  
6m: 20143110



### TIG-MAX®XT extension cable

Black, for XT earth cable

SKU:  
3m: 2014324  
6m: 2014326



### TIG-MAX®XT cable

Blue

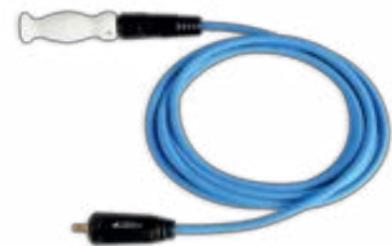
SKU:  
3m: 2014322  
6m: 2014323  
10m: 2014325



### Cable NEW for TIG-BRUSH

Blue, with handle

SKU:  
3m: 4450  
6m: 4455  
10m: 4457



### Cable with handle for TIG-BRUSH

Red

SKU:  
3m: 4500  
6m: 4501



### Extension cable for TIG-BRUSH

Red, for Tig-Brush cable

SKU:  
3m: 4506



### Earth cable for TIG-BRUSH

Black, incl. earth clamp

SKU:  
3m: 4503  
6m: 4504



### Extension cable for TIG-BRUSH

Black, for Tig-Brush earth cable

SKU:  
3m: 4507



## BRUSHES

### TIG-MAX®XT double brush adapter

SKU: 47061  
Sliding shroud and brush not included



### TIG-MAX®XT fourfold brush adapter

SKU: 47071  
Sliding shroud and brush not included



### TIG-MAX®XT cleaning brush

M6 external thread, for XT 4000 und 6000

SKU 1 piece: 440112 SKU 10 pieces: 44021



### TIG-MAX®XT cleaning brush

M6 external thread, for XT 7000 und 9000

SKU 1 piece: 44101 SKU 10 pieces: 44201



### TIG-MAX®XT stainless steel brush

M6 external thread, with stainless steel frame

SKU 1 piece: 44011 SKU 10 pieces: 44012



### TIG-MAX®XT flat brush

M6 external thread

SKU size S: 44040 SKU size M: 44041



### TIG-MAX® cleaning brush

M7 conical thread

SKU 1 piece: 2014201 SKU 10 pieces: 2014202



### Cleaning brush

M10 inner thread

SKU 1 piece: 4400 SKU 10 pieces: 44001



### TIG-MAX®XT internal brushes

M6 external thread, diameter from 15-50 mm

SKU 15mm: 44092  
SKU 18mm: 44093  
SKU 25mm: 44094  
SKU 42mm: 44095  
SKU 50mm: 44096



### Cleaning brush for TIG-BRUSH

M6 external thread

**Brush** SKU 1 piece: 4401  
SKU 10 pieces: 4402  
**Superbrush** SKU 1 piece: 4410  
SKU 10 pieces: 4420



## HANDLES, PINS AND SLEEVES

### TIG-MAX®XT Handle + Wand + Sliding shroud



SKU: 20143392  
XT 4000 / XT 6000

SKU: 20143393  
XT 7000 / XT 9000

### TIG-MAX®XT Handle + Wand



SKU: 2014339

### TIG-MAX®XT Handle



SKU: 2014334

### TIG-MAX®XT Wands

SKU:  
straight 85mm: 2014335  
45° 85mm: 20143361  
90° 85mm: 20143371



Extra-long 500mm: 20143356



### TIG-MAX®XT Sliding shroud + Wand



SKU: 20143351  
XT 4000 / XT 6000

SKU: 20143352  
XT 7000 / XT 9000

### TIG-MAX®XT Sliding shroud



SKU: 470312  
XT 4000 / XT 6000

SKU: 4703121  
XT 7000 / XT 9000

### TIG-MAX®XT Double sliding shroud



SKU: 470411

### TIG-MAX®XT Fourfold sliding shroud



SKU: 47055

### JUST NEW! Upgrade your device with M10 inner thread to our HIGH PERFORMANCE BRUSHES!

Conversion wand



SKU: 47093

Conversion wand +  
sliding shroud



SKU: 470931

## OTHER ACCESSORIES

### TIG-MAX®XT Trolley

height: 71cm  
length: 43cm  
width: 53cm



SKU: 5100

### TIG-MAX®XT Transport case

- external dimensions  
687 x 528 x 276 (LxWxH in mm)  
- internal dimensions  
620 x 460 x 250 (LxWxH in mm)  
- Weight empty: 6,98 Kg



SKU: 20142170

### TIG-MAX®XT Transport box

- external dimensions  
396 x 296 x 427 (LxWxH in mm)  
- internal dimensions  
381 x 265 x 384 (LxWxH in mm)  
- Weight empty: 3,10 Kg



SKU: 4601

### Liquid container

capacity: 250ml



SKU: 4702

### CHE mat 80x100cm Oil and acid resistant



SKU: 6000

### Micro fiber cloth 40x40cm



SKU: 4711

### Pressure pump bottle capacity: 1,2l Spray bottle capacity: 0,5l



SKU: 4699



SKU: 4700

### Safety goggles



SKU: 4716

### Respirator



SKU: 4717

### Chemistry gloves



SKU: 4715

### Copper paste



SKU: 4718

### HSF wire brushes

small



Each with stainless steel bristles

SKU: 4406

big



SKU: 4405

## BEFORE - AFTER EXAMPLES

Our

**TIG-MAX<sup>®</sup>XT**

gets

**EVERYTHING**

clean...



## CUSTOMER OPINIONS

### Read what our customers say about the **TIG-MAX<sup>®</sup>XT** generation ...

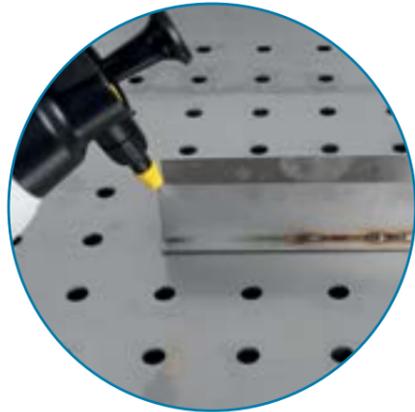
- » The **TIG-MAX XT** is faster and faster gives better results than other methods. «
- » It's fast and easy to use, and most of all, I can let inexperienced people work with it without worrying about employee safety! «
- » We take our **TIG-MAX XT** really hard and he never let us down! «
- » A solid, well thought-out weld cleaning solution that's tough enough for the harsh workshop or assembly environment! «
- » The **TIG-MAX XT** works better than older electrolytic devices. He has proven to be extremely robust and we would buy it again anytime! «
- » A small, lightweight but very powerful device, we are thrilled. «
- » We use the **TIG-MAX XT** in 3-shift operation. The device delivers always full power and is consistently ready for use. «
- » We had a device with Pad before and are very pleasantly surprised how much time we save now. «
- » Since we used the **TIG-MAX XT** we do not have white borders after cleaning and we do not have to treat again! «
- » Despite the high performance, the Carbon brush works incredibly long! «



Find out which device could revolutionize your business and arrange just today under +49(0)2776 92278-0 a **FREE** demonstration!

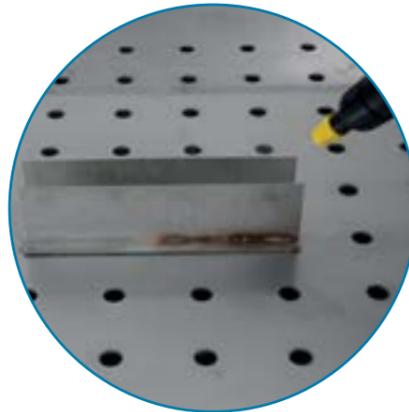
## Technical tips after welding seam cleaning

In order to avoid soiled or smudged workpieces or the formation of edges or tempering colors, it is important to correct the welds correctly after cleaning.



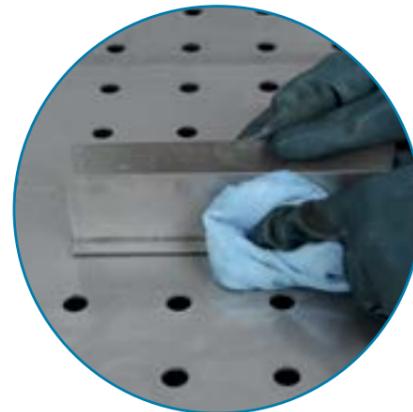
### 1. Neutralize

Fill the neutralizing fluid (e.g., TC-510) into a pressure pump sprayer or spray bottle. Spray the neutralizer on the treated surface. Be sure to spray the entire surface of the weld cleaning fluid.



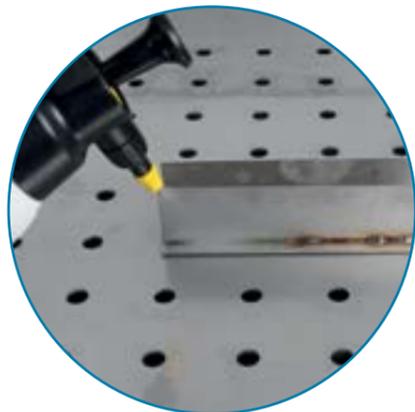
### 2. Rinse off

Rinse the treated area with clean water. Use plenty of water and be sure to remove all liquid from the surface. The rinsing of the treated surface can be done for example with a high-pressure cleaner.



### 3. Drying

Now dry the treated area with a clean microfibre cloth as needed.



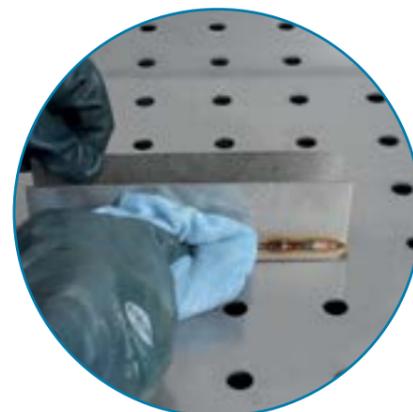
### 1. Neutralize

Fill the neutralizing fluid (e.g., TC-510) into a pressure pump sprayer or spray bottle. Spray the neutralizer on the treated surface. Be sure to spray the entire surface of the weld cleaning fluid.



### 2. Evaporation

Use our special steam cleaner to remove the liquid from the surface. Drive over the treated area as often as necessary until all residues of the cleaning fluid have been removed.



### 3. Drying

Now dry the treated area with a clean microfibre cloth as needed.

## Cleaning and maintenance after the end of work

After completing work with the **TIG-MAX®XT** observe the following simple care and maintenance instructions!

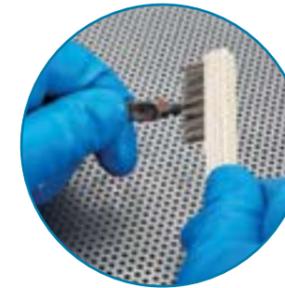


1. Turn off the device and unplug the blue cable.
2. Unscrew the brush from the wand.
3. Remove the sliding shroud.

4. Unscrew the wand from the handle.
5. Wash all parts thoroughly under running water.
6. Allow the parts to dry overnight before packing them away.



1. Thoroughly rinse the brushes with warm water after each weld cleaning and allow them to dry thoroughly, taking care to keep the fibers straight.



2. If the copper socket on the brush starts to run or becomes dirty, clean it with a small stainless steel wire brush to ensure good electrical contact.



3. If pads form on or in the threads of the brush, wand or handle, clean them with a miniature wire brush. The threads could otherwise seize and the cleaning performance could be reduced or completely lost.

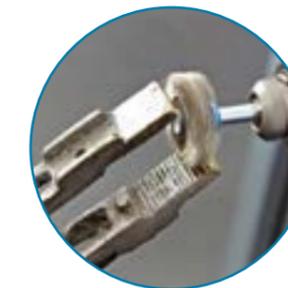


## Care of the earth clamp

Dirt, corrosion or deposits on the earth clamp can affect the electrical continuity, which reduces the cleaning performance!



1. Turn off the device and disconnect the earth cable from the TIG-MAX device. Lock the clamp in a vice with soft jaws.



2. Clean the clamp and especially the prongs with a fine wire brush.



3. The earth clamp now has the full electrical continuity again.

# REASONS TO CHOOSE HSF!

## Personal advice and support

- Test machine on request
- On-site service: free demonstration at your workshop/ construction site etc.
- Commissioning and training
- Technical advice: Our technical consultants can answer any technical queries about your product fast and professionally.



## Fast and on-time delivery

- Order by 2 PM, same day shipping!
- Large stockholding: enabling fast and effective delivery of spare parts, accessories and machines
- Call-off orders: We store for you and deliver to you at your agreed time!

## Easy financing

- Low priced ex-demo machines!  
(With full warranty and training, just as new equipment)
- Lease / rental / leasing and instalment a payment plans possible



## Low maintenance and fast service

- Fast and efficient repair service in the unlikely event your machine needs to be repaired.
- Replacement machine during maintenance

**Your dealer:**

**HSF** INDUSTRIE  
TECHNIK GmbH  
YOUR PARTNER FOR INDUSTRY

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